High Temperature Dental Furnace

ø High temperature porcelain furnace VNF-12KL

ø Zirconia sintering furnace VNF-17KL

ø Box type porcelain furnace VNF-14XL

ø High temperature dental furnace VNF-16KZL

The Main Purpose

- This equipment is mainly used for the processing and production of dental porcelain powder, denture processing, crystallization and sintering of zirconia crowns, etc., and is widely used in universities, scientific research institutes, industrial and mining enterprises, etc. This equipment is an ideal equipment for experiments and production of powder, military industry, aerospace, electronics, metallurgy, medicine, ceramics, glass, machinery, new material development, special materials, refractory materials, building materials, chemical industry, metal sintering and metal heat treatment.

Technical Characteristics

- This equipment introduces foreign advanced technology and independently develops and produces a new type of electric furnace with high efficiency, energy saving and environmental protection. The equipment has unique design technology, beautiful appearance, advanced and reasonable structure, simple and convenient operation. The shell of this equipment is made of high-quality cold-rolled steel plate, processed by precision CNC machine tools, and processed by luxurious and beautiful two-color imported epoxy powder electrostatic spraying process, which is high temperature resistant, corrosion resistant, and does not fade for a long time;
- The furnace has a unique circular furnace design, the heating element forms a ring-shaped uniform heat distribution, the temperature field is uniform, the surface temperature of the double-layer heat-resistant furnace body is close to room temperature, and the heating, holding and cooling rates can be adjusted arbitrarily. The furnace of the equipment is constructed of imported ultra-high temperature composite fiber materials through numerical control technology. It has strong thermal shock resistance, strong heat resistance, good corrosion resistance, no collapse, no crystallization, no slag drop, no pollution, and long service life. ;
- The control system adopts microcomputer intelligent adjustment technology, with PID adjustment, automatic control, self-tuning functions, 50-segment program programming, and can program various heating, heat preservation, and cooling programs, with high temperature control accuracy, high energy saving, and high stability;
- The protection device adopts independent protection: over-temperature, over-voltage, over-current, broken couple, power failure, leakage, short circuit and other protections. The degree of automation is high, and various indicators have reached the advanced level;
- The lifting loading platform has a scientific and reasonable structure, and has become the mainstream sintering furnace type in the field of zirconia or alumina crystallization.

Main Advantages

- Energy-saving and electricity-saving, environmental protection and pollution-free (furnace hearth material is high-purity composite alumina/ceramic polycrystalline fiber, light in weight, less heat storage, energy-saving, and works at half power on average)
- The heating element is easy to replace, saves energy and time (the heating element is high-quality resistance wire/silicon carbon rod/silicon molybdenum rod, which has a long service life and is easy to replace)
- Touch screen control, easy to use and flexible.
- High temperature control accuracy (high-quality instrument, temperature control accuracy ± 1 ℃) the instrument can issue a third-party inspection certificate
- Good uniformity of furnace temperature, heating around (reasonable layout, balanced temperature field, no dead angle in the furnace cavity)
- Microcomputer program temperature control, adjustable heating rate, automatic operation without manual guard
- Over-temperature, over-pressure, over-current, leakage, broken coupler, broken rod automatic protection and alarm
- The bottom of the furnace is lifted and lowered by electricity, the lifting is stable without vibration, and the material is fed from the lower port.
- Application range: Mainly used in the processing and production of dental porcelain powder, ideal for denture processing plants.
- Double-layer shell, air convection insulation layer
- The shell is sprayed with plastic, and the two-color matching looks exquisite and generous
- Good reputation and many customers
- Good cost performance, perfect after-sales service, 1 year warranty

Additional Configuration

- In addition, through the control software independently developed by our company, the electric furnace is connected with the computer, which can realize remote control of single or multiple electric furnaces, start electric furnace, stop electric power, set temperature control program, store temperature control program, view historical curve, printing history curves, etc;
- True color touch screen, PLC control, easy to operate, real-time temperature control detection, heating dynamic curve display, furnace temperature can be corrected regularly.

Furnace Size

mm Chamber Size	V Voltage	Kw Power	℃ Temp Control Accuracy
100Á 100	220	2	À 1æ
120Á 120	220	2.5	À 1æ
Temperature 800æ ¢1000æ ¢1200æ ¢1400æ ¢1600æ ¢1700æ ¢1800æ ¢2200æ			

- Chamber size and temperature according to customer need;
- Control System:Computer control,touch screen control,micro-computer control.